Attorney's Docket No.: 08935-255001 / M-4975 Applicant: Paul A. Christian et al.

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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method of preparing nickel oxyhydroxide, the method comprising:

combining a nickel hydroxide and a hydroxide salt in an inert atmosphere to form a dry mixture; and

contacting exposing the dry mixture with humidified to ozone to form a nickel oxyhydroxide.

- 2. (Original) The method of claim 1, wherein the nickel hydroxide includes a betanickel hydroxide, a cobalt hydroxide-coated beta-nickel hydroxide, an alpha-nickel hydroxide, or a cobalt hydroxide-coated alpha-nickel hydroxide.
- (Original) The method of claim 1, wherein the nickel oxyhydroxide includes a 3. beta-nickel oxyhydroxide, a cobalt oxyhydroxide-coated beta-nickel oxyhydroxide, a gammanickel oxyhydroxide, or a cobalt oxyhydroxide-coated gamma-nickel oxyhydroxide.
- 4. (Original) The method of claim 1, wherein the inert atmosphere is substantially free of carbon dioxide.
- (Original) The method of claim 1, wherein the inert atmosphere is substantially 5. free of water.
- 6. (Original) The method of claim 1, wherein the inert atmosphere is substantially free of carbon dioxide and substantially free of water.

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7. (Currently amended) The method of claim 1, further comprising heating the <u>dry</u> mixture prior to contacting or <u>during exposing</u> the <u>dry</u> mixture with <u>humidified</u> to ozone.

- 8. (Currently amended) The method of claim 1, further comprising agitating the <u>dry</u> mixture <u>while contacting during exposing</u> the <u>dry</u> mixture <u>with humidified</u> to ozone.
- 9. (Currently amended) The method of claim 1, wherein <u>contacting exposing</u> the <u>dry mixture with humidified</u> to ozone <u>comprises includes</u> contacting the <u>dry mixture with a gas mixture including ozone.</u>
 - 10. (Original) The method of claim 9, wherein the gas mixture includes dioxygen.
 - 11. (Cancelled)
- 12. (Original) The method of claim 1, wherein the nickel hydroxide is a powder including particles having a spherical, spheroidal, or ellipsoidal shape.
- 13. (Original) The method of claim 1, wherein the nickel hydroxide is a substantially dry nickel hydroxide.
- 14. (Original) The method of claim 1, wherein the hydroxide salt includes potassium hydroxide, sodium hydroxide, lithium hydroxide, or mixtures thereof.
- 15. (Original) The method of claim 1, wherein the hydroxide salt includes silver hydroxide or gold hydroxide.
- 16. (Currently amended) The method of claim 1, wherein the <u>method comprises</u> contacting the dry mixture <u>with humidified</u> is exposed to ozone for less than 24 hours.
- 17. (Original) The method of claim 16, wherein the nickel hydroxide includes a cobalt hydroxide-coated beta-nickel hydroxide or a cobalt hydroxide-coated alpha-nickel hydroxide.

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18. (Original) The method of claim 1, wherein the mixture further includes an oxidation-promoting additive.

- 19. (Original) The method of claim 18, wherein the oxidation-promoting additive includes metallic silver, silver(+1) oxide, silver(+1,+3) oxide, metallic gold, gold (+3) oxide, gold (+3) hydroxide, potassium peroxide, potassium superoxide, potassium permanganate, or silver permanganate.
- 20. (Original) The method of claim 1, wherein the nickel hydroxide includes a bulk dopant.
- 21. (Original) The method of claim 1, wherein the bulk dopant includes aluminum, manganese, cobalt, gallium, indium, or bismuth.

22-28. (Cancelled)

29. (Currently amended) A method of manufacturing a battery, the method comprising:

combining a nickel hydroxide and a hydroxide salt in an inert atmosphere to form a dry mixture;

contacting exposing the dry mixture with humidified to ozone to form a nickel oxyhydroxide; and

assembling a cathode comprising the nickel oxyhydroxide, an anode, a separator, and an electrolyte to form the battery.

30. (Currently amended) A method of decreasing capacity loss in a nickel oxyhydroxide battery, the method comprising:

combining a nickel hydroxide and a hydroxide salt in an inert atmosphere to form a dry mixture;

contacting exposing the dry mixture with humidified to ozone to form a nickel oxyhydroxide;

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forming a cathode including the nickel oxyhydroxide; and

assembling the cathode, an anode, a separator, and an electrolyte to form the alkaline battery,

wherein the battery has a capacity loss after storage for 4 weeks at 60°C of less than 30 percent.

- 31. (Original) The method of claim 30, wherein the nickel hydroxide is cobalt hydroxide modified nickel hydroxide.
- 32. (Previously presented) The method of claim 29, wherein the inert atmosphere is substantially free of carbon dioxide.
- 33. (Previously presented) The method of claim 29, wherein the inert atmosphere is substantially free of water.
- 34. (Previously presented) The method of claim 29, wherein the inert atmosphere is substantially free of carbon dioxide and substantially free of water.
- 35. (Previously presented) The method of claim 29, wherein the inert atmosphere includes a gas selected from the group consisting of nitrogen, argon, helium, and oxygen.
- 36. (Previously presented) The method of claim 30, wherein the inert atmosphere is substantially free of carbon dioxide.
- 37. (Previously presented) The method of claim 30, wherein the inert atmosphere is substantially free of water.
- 38. (Previously presented) The method of claim 30, wherein the inert atmosphere is substantially free of carbon dioxide and substantially free of water.
- 39. (Previously presented) The method of claim 30, wherein the inert atmosphere includes a gas selected from the group consisting of nitrogen, argon, helium, and oxygen.

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40. (Previously presented) The method of claim 1, wherein the inert atmosphere includes a gas selected from the group consisting of nitrogen, argon, helium, and oxygen.

41-65. (Cancelled)

- 66. (Previously presented) The method of claim 1, wherein the inert atmosphere is substantially free of air.
- 67. (Previously presented) The method of claim 29, wherein the inert atmosphere is substantially free of air.
- 68. (Previously presented) The method of claim 30, wherein the inert atmosphere is substantially free of air.
- 69. (Previously presented) The method of claim 29, wherein the battery is a primary battery.
- 70. (Previously presented) The method of claim 30, wherein the battery is a primary battery.
- 71. (New) The method of claim 1, further comprising heating the dry mixture while contacting the dry mixture with humidified ozone.
- 72. (New) The method of claim 1, wherein combining a nickel hydroxide and a hydroxide salt in an inert atmosphere comprises contacting the nickel hydroxide and the hydroxide salt with an inert gas.
- 73. (New) The method of claim 29, wherein combining a nickel hydroxide and a hydroxide salt in an inert atmosphere comprises contacting the nickel hydroxide and the hydroxide salt with an inert gas.

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74. (New) The method of claim 30, wherein combining a nickel hydroxide and a hydroxide salt in an inert atmosphere comprises contacting the nickel hydroxide and the hydroxide salt with an inert gas.